SA-W551/W552

SERVICE MANUAL

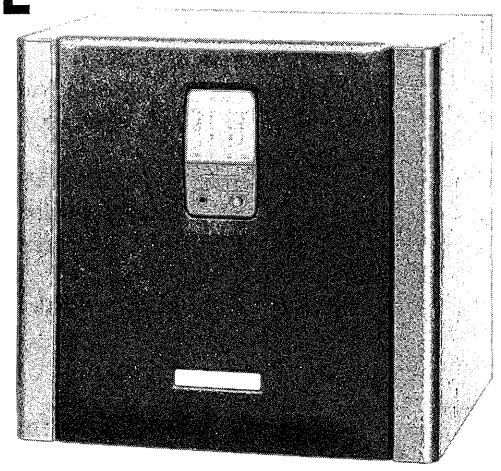

Photo : SA-W551 (E model)

US Model
SA-W551/W552

Canadian Model
AEP Model
UK Model
E Model
SA-W552

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 100 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Overall output
120 W + 120 W (front, at rear/center off at 1 kHz, 8 ohms)
20 W + 20 W (rear, at center off at 1 kHz, 8 ohms)
40 W (center, at rear off at 1 kHz, 6 ohms)
40 W (super woofer, at rear/center off at 40 Hz 4 ohms)

Harmonic distortion
Less than 0.9 % (at 1 kHz, 8 ohms loads, front: 120 W + 120 W, rear/center/super woofer off)

Output
FRONT SPEAKERS:
Accept speakers of 8 – 16 ohms
REAR SPEAKERS:
Accept speakers of 8 – 16 ohms
CENTER SPEAKER:
Accept speaker of 6 – 16 ohms
HEADPHONES:
Accepts low and high impedance Headphones

Speaker section

Type	Active super woofer (magnetically shielded design)
Speaker unit	Woofer: 20 cm (8 inches) cone type
Reproduction frequency range	25 Hz to 150 Hz

General

Power requirements	US, Canadian Mexican model : 120V AC, 60Hz AEP, German, UK model : 220 - 230V AC, 50/60Hz E, Singapore model : 110 - 120V/220 - 240V AC adjustable, 50/60Hz
Power consumption	US, E model : 280W Canadian model : 380VA AEP, German, UK, Mexican, Singapore model : 250W
Dimensions	Approx. 500×475×475mm (w/h/d) (19¾ ×18¾ ×18¾ inches) (including projecting parts and controls)
Mass	Approx. 31.0kg (68lb 6oz)

Design and specifications are subject to change without notice.

ACTIVE SUPER WOOFER

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

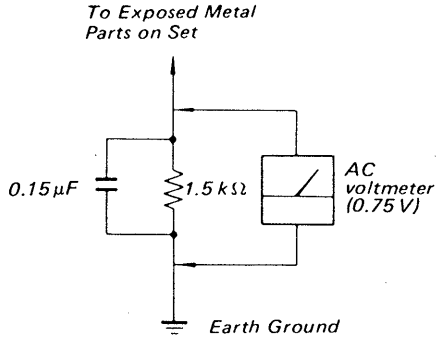

Fig. A. Using an AC voltmeter to check AC leakage.

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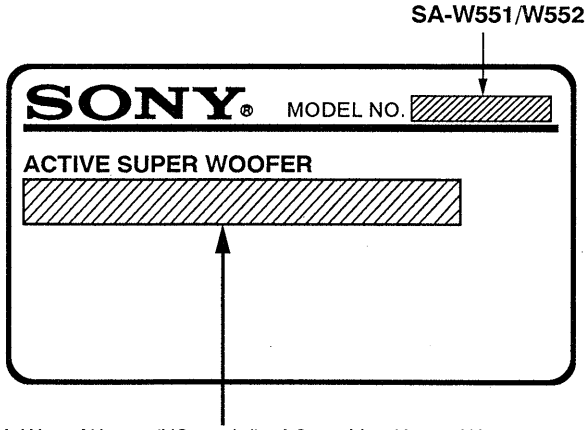
2. **DIAGRAMS**
   - 2-1. Printed Wiring Boards ····· 6
   - 2-2. Schematic Diagram ····· 9
3. **EXPLODED VIEWS**
   - 3-1. Front Section ····· 13
   - 3-2. Rear Section ····· 14
4. **ELECTRICAL PARTS LIST** ····· 16

MODEL IDENTIFICATION



SA-W551/W552 (US model) : AC 120V 60Hz 280W
SA-W552 (Mexican model) : AC 120V 60Hz 250W
SA-W552 (E model) : AC 110-120V/220-240V~50/60Hz 280W
SA-W552
(AEP, UK, German model) : AC 220-230V~50 /60Hz 250W
SA-W552 (Singapore model) : AC 110-120V/220-240V~50/60Hz 250W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

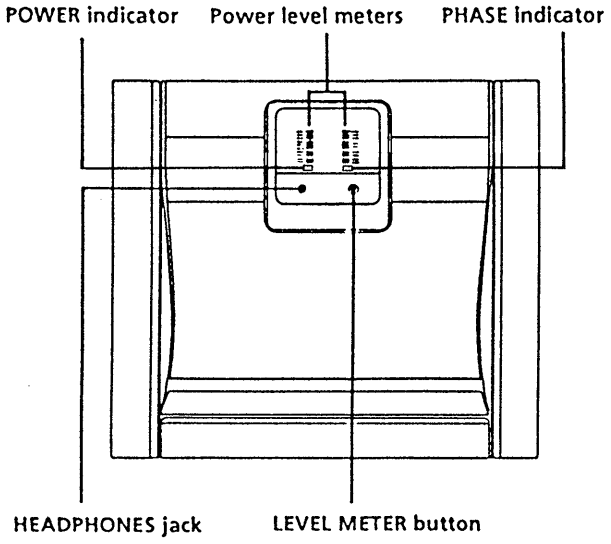
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

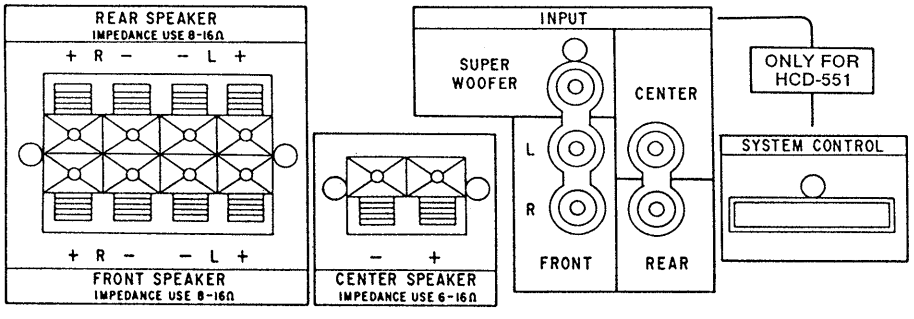
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

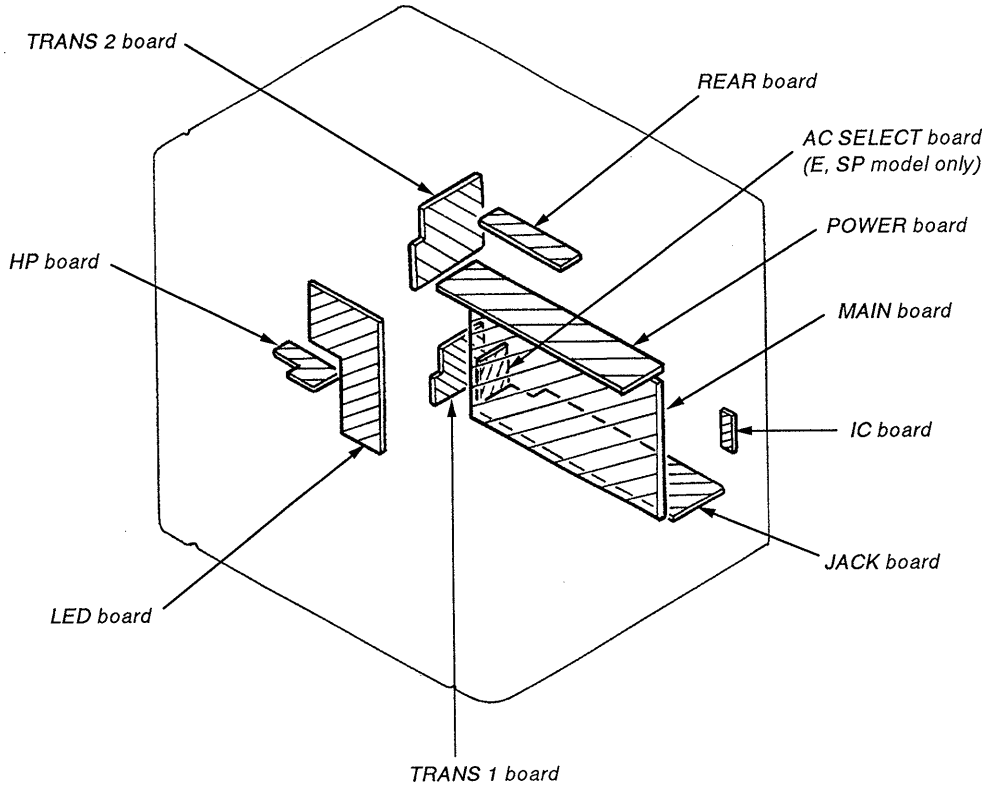
LOCATION OF CONTROLS





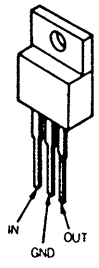
SECTION 2
DIAGRAMS

• CIRCUIT BOARD LOCATION

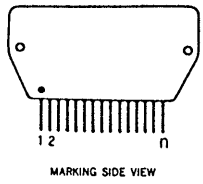


● SEMICONDUCTOR LEAD LAYOUTS

M5F7807



STK4030Ⅱ



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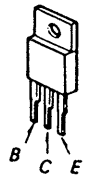
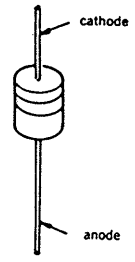
2SD2012



2SD1312-LKU

UZL-27H
11ES2



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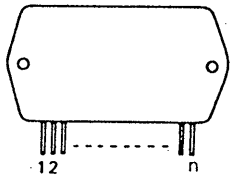
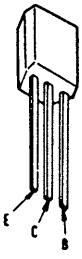


DTA124ES
DTC124ES



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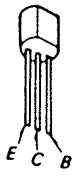
2SC1841-PAFAEA



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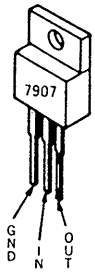
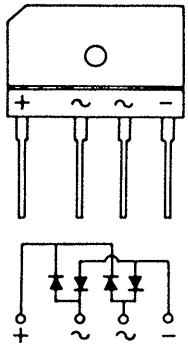


D5SBA20



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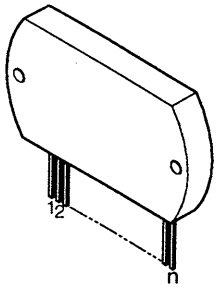

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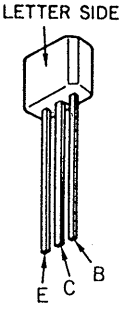
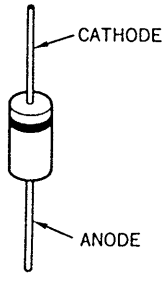
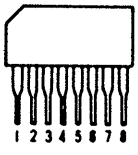


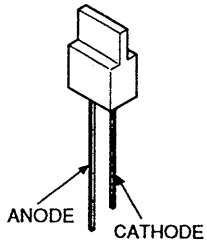
UZP-6.2B
1N4148M
1S1585



M5218AL
M5230L-A
μPC1237HA



SEL4214S



2-1. PRINTED WIRING BOARDS

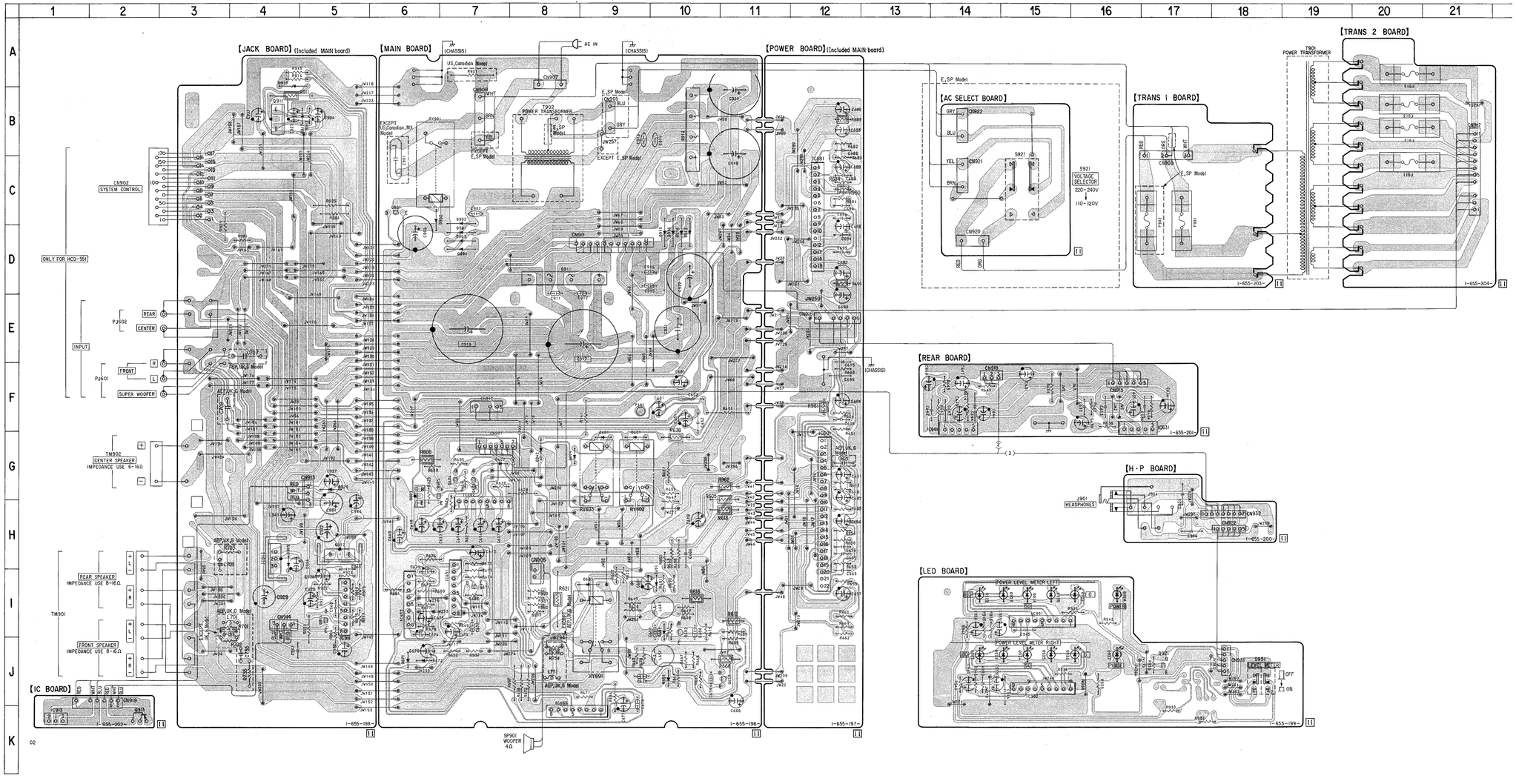
● Refer to page 5 for Semiconductor Lead Layouts.

● SEMICONDUCTOR LOCATION

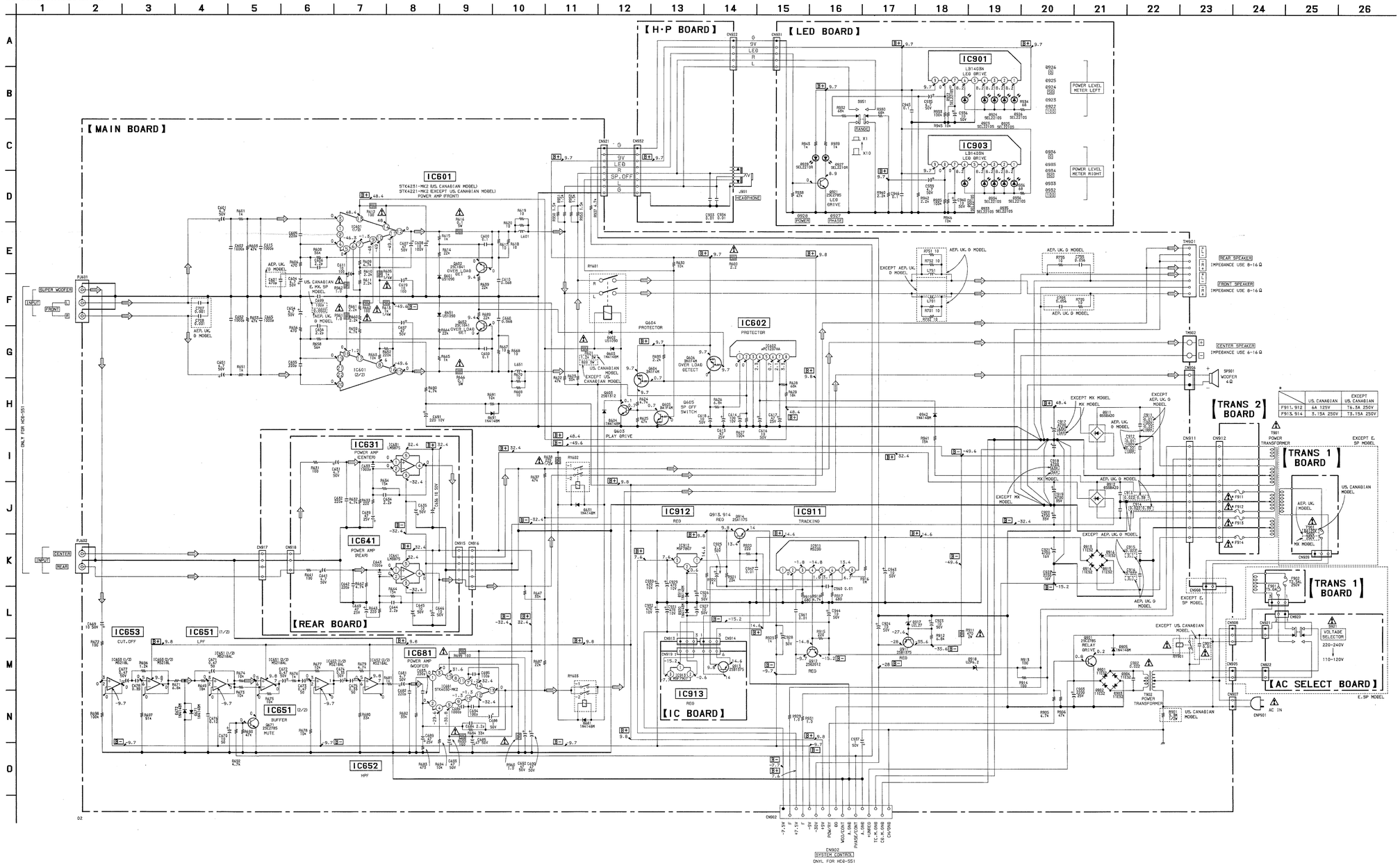
Ref. No.	Location	Ref. No.	Location
D601	I - 10	D935	J - 15
D602	G - 7	D936	J - 16
D603	I - 9	D942	G - 8
D604	G - 8		
D631	G - 9		
		IC601	G - 12
D651	J - 10	IC602	H - 7
D671	J - 6	IC631	F - 17
D672	J - 6	IC641	F - 14
D681	G - 9	IC651	I - 7
D691	I - 10		
		IC652	I - 6
D901	D - 7	IC653	K - 8
D902	D - 7	IC681	C - 12
D903	D - 7	IC901	I - 15
D904	D - 7	IC902	J - 15
D905	C - 6		
		IC911	I - 15
D911	D - 8	IC912	H - 4
D912	B - 10	IC913	K - 1
D913	D - 10		
D914	D - 10		
D915	D - 10	Q602	I - 10
		Q603	G - 6
D916	D - 10	Q604	G - 7
D917	B - 5	Q605	G - 6
D918	B - 4	Q606	G - 7
D919	H - 4		
D920	G - 5	Q652	J - 11
		Q671	I - 7
D922	I - 14	Q901	C - 6
D923	I - 15	Q911	B - 4
D924	I - 15	Q912	H - 5
D925	I - 15		
D926	I - 16	Q913	K - 2
		Q914	I - 5
D927	J - 16	Q921	J - 17
D928	I - 16		
D932	J - 14		
D933	J - 15		
D934	J - 15		

Note:

- ○— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.
- Abbreviations
  G : German
  MX : Mexican
  SP : Singapore

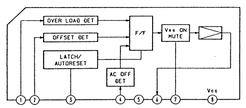


2-2. SCHEMATIC DIAGRAM

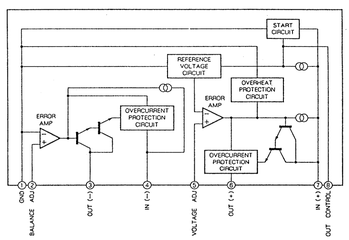


• IC BLOCK DIAGRAMS

IC602 μPC1237HA



IC911 M5230L-A



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⊷ : nonflammable resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note : Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM
- Abbreviation
  G : German
  MX : Mexican
  SP : Singapore

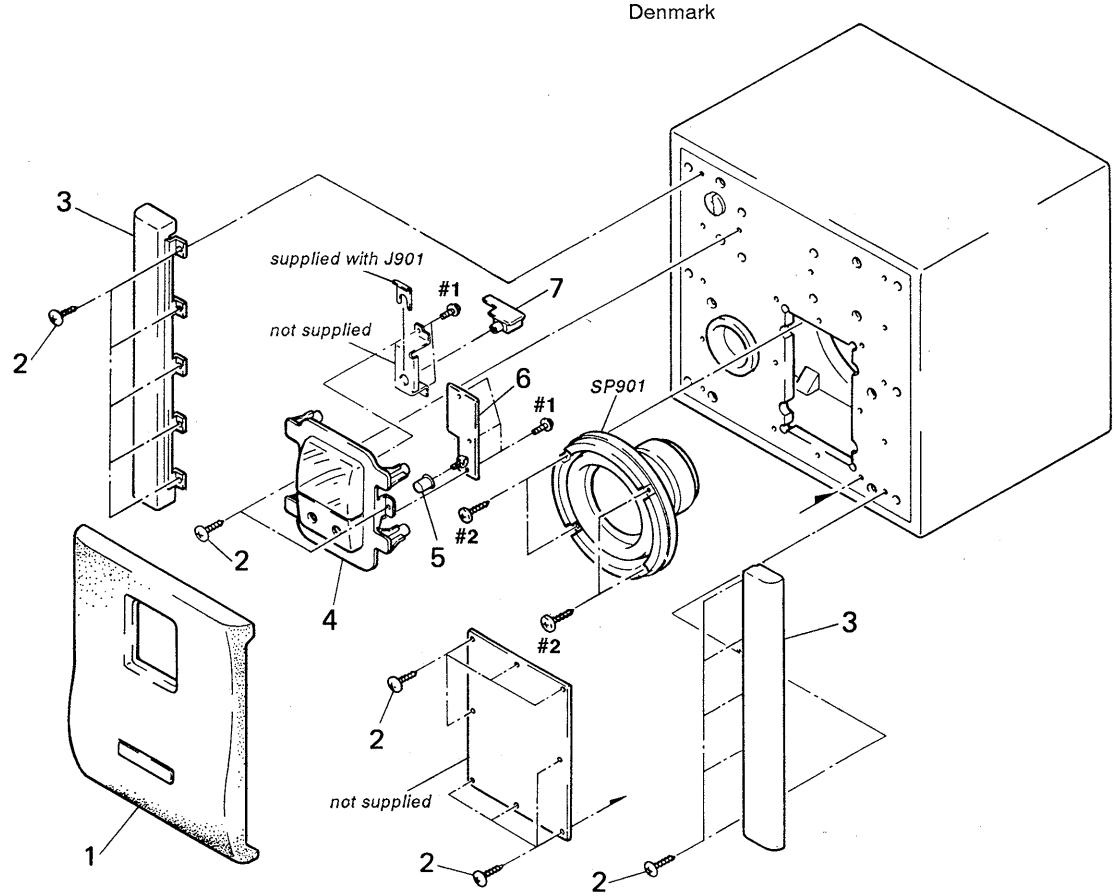
SECTION 3
EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

  CND : Canadian AED : German
  G : German Norway
  MX : Mexican Sweden
  SP : Singapore Finland
  Denmark

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

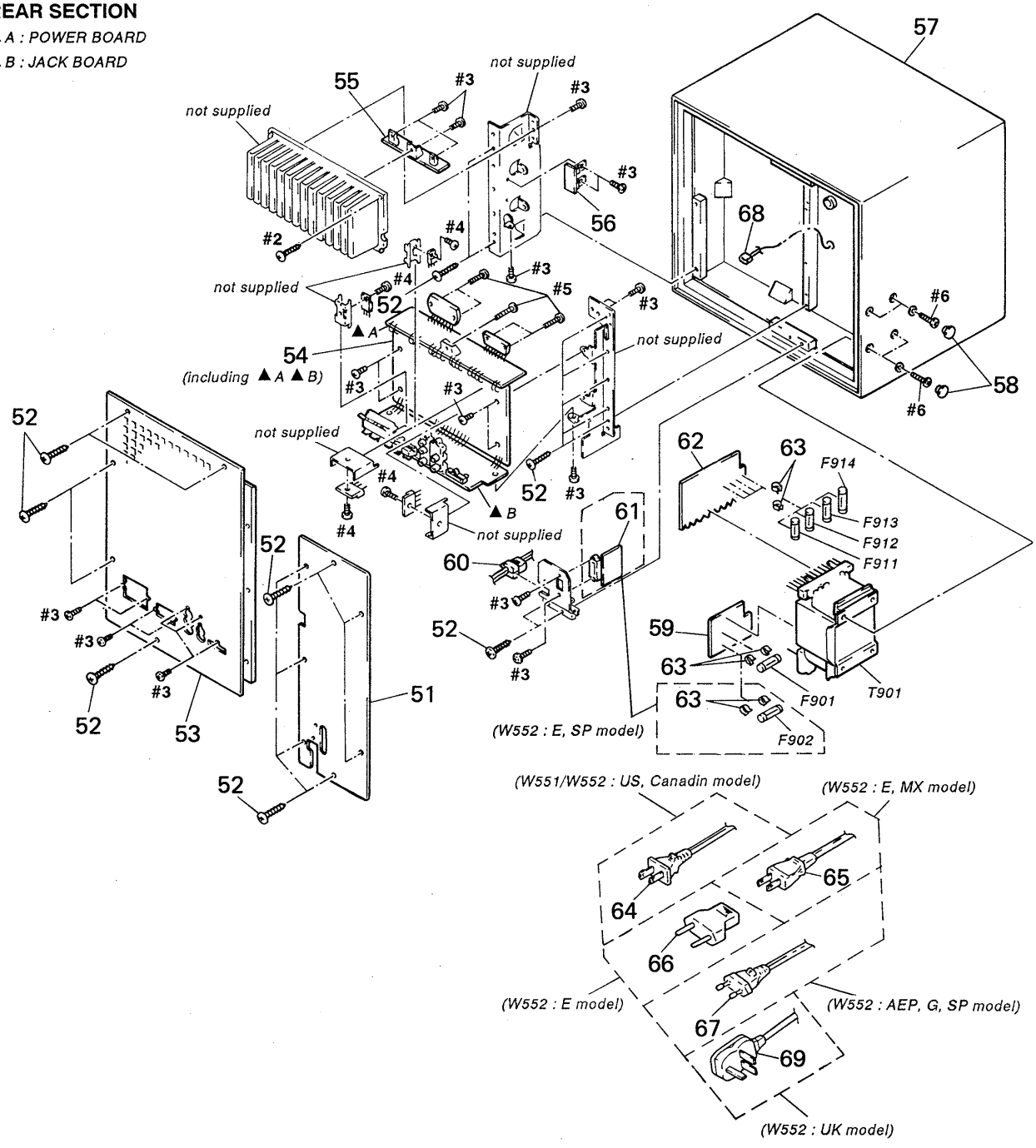


Ref. No.	Part No.	Description	Remark
1	X-4945-587-1	FRAME ASSY, GRILLE (W552)	
1	X-4945-651-1	FRAME ASSY, GRILLE (W551)	
2	4-929-125-11	SCREW (M4×16), TAPPING	
3	4-962-846-01	PANEL, SIDE	
4	X-4945-577-1	PANEL (A) ASSY, TOP	
5	4-964-705-01	BUTTON (RANGE)	
* 6	1-655-199-11	LED BOARD	
* 7	1-655-200-11	H. P BOARD	
SP901	1-504-515-11	SPEAKER (20CM)	

3-2. REAR SECTION

▲A : POWER BOARD

▲B : JACK BOARD



Ref. No.	Part No.	Description	Remark
* 51	4-971-589-01	BOARD (S), BACK (W551/W552:US, CND, AEP, UK, G, MX)	
* 51	4-971-589-11	BOARD (S), BACK (W552:E, SP)	
52	4-874-614-21	SCREW (4) (3.5×14), TAPPING	
53	X-4945-722-1	BOARD (L) ASSY, BACK (W551)	
53	X-4945-723-1	BOARD (L) ASSY, BACK (W552:US)	
53	X-4945-751-1	BOARD (L) ASSY, BACK (W552:MX)	
53	X-4945-752-1	BOARD (L) ASSY, BACK (W552:CND)	
53	X-4945-753-1	BOARD (L) ASSY, BACK (W552:E)	
53	X-4945-754-1	BOARD (L) ASSY, BACK (W552:UK)	
53	X-4945-755-1	BOARD (L) ASSY, BACK (W552:SP)	
53	X-4945-886-1	BOARD (L) ASSY, BACK (W552:AEP, G)	
* 54	A-4377-196-A	MAIN BOARD, COMPLETE (W551/W552:US, CND)	
* 54	A-4377-466-A	MAIN BOARD, COMPLETE (W552:MX)	
* 54	A-4377-468-A	MAIN BOARD, COMPLETE (W552:E, SP	
* 54	A-4377-730-A	MAIN BOARD, COMPLETE (W552:AEP, UK, G)	
* 55	1-655-201-11	REAR BOARD	
* 56	1-655-202-11	IC BOARD	
* 57	A-4361-274-A	CABINET ASSY, SPEAKER (W552:US, CND, AEP, UK, E, MX, SP)	
* 57	A-4361-334-A	CABINET ASSY, SPEAKER (W551)	
* 57	A-4361-447-A	CABINET ASSY, SPEAKER (W552:AED, G)	
58	4-965-090-01	CAP (BROWN) (W551)	
58	4-965-090-12	CAP (BLACK) (W552)	
* 59	1-655-203-11	TRANS 1 BOARD	
* 60	3-703-244-00	BUSHING (2104), CORD (EXCEPT W552:E, MX)	
60	3-703-571-11	BUSHING (S) (4516), CORD (W552:E, MX)	
* 61	1-655-649-11	AC SELECT BOARD (W552:E, SP)	
* 62	1-655-204-11	TRANS 2 BOARD	

Ref. No.	Part No.	Description	Remark
63	1-533-293-11	FUSE HOLDER	
⚠64	1-690-609-12	CORD, POWER (W551/W552:US, CND)	
⚠65	1-575-653-11	CORD, POWER (W552:E, MX)	
⚠66	1-569-007-11	ADAPTER, CONVERSION 2P (W552:E)	
⚠67	1-575-651-11	CORD, POWER (W552:AEP, G, SP)	
68	1-769-278-11	CORD, CONNECTION	
⚠69	1-751-521-21	CORD, POWER (W552:UK)	
⚠F901	1-532-505-51	FUSE, TIME LAG (T5.0AL) (W552:E, SP)	
⚠F901	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (T6.3A/250V) (W552:MX)	
⚠F901	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (AEP, UK, G)	
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/250V) (W551/W552:US, CND)	
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5A/250V) (W552:E, SP)	
⚠F911	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F911	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F912	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F912	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F913	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F913	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	
⚠F914	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F914	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	
⚠T901	1-423-947-11	TRANSFORMER, POWER (W551/W552:US, CND)	
⚠T901	1-426-916-11	TRANSFORMER, POWER (W552:MX)	
⚠T901	1-426-934-11	TRANSFORMER, POWER (W552:AEP, UK, G)	
⚠T901	1-427-809-11	TRANSFORMER, POWER (W552:E, SP)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 4
ELECTRICAL PARTS LIST

AC SELECT | H.P | IC | LED

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian
  G : German
  MX : Mexican
  SP : Singapore

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	1-655-649-11	AC SELECT BOARD (W552:E, SP)			
		**********			
		< CONNECTOR >			
CN920	1-564-321-00	PIN, CONNECTOR 2P (W552:E, SP)			
CN921	1-770-128-11	PIN, CONNECTOR 2P (W552:E, SP)			
		< SWITCH >			
⚠S921	1-571-309-31	SWITCH (VOLTAGE SELECTOR) (W552:E, SP)			
**********					
*	1-655-200-11	H.P BOARD			
		*********			
		< CAPACITOR >			
C933	1-162-306-11	CERAMIC	0.01uF	30%	16V
C934	1-162-306-11	CERAMIC	0.01uF	30%	16V
**********					
*	1-655-202-11	IC BOARD			
		********			
		< IC >			
IC913	8-759-604-90	IC M5F7907L			
		< TRANSISTOR >			
Q913	8-729-141-83	TRANSISTOR 2SB1094-LK			
**********					
*	1-655-199-11	LED BOARD			
		*********			
		< CAPACITOR >			
C935	1-124-927-11	ELECT	4.7uF	20%	100V
C936	1-124-907-11	ELECT	10uF	20%	50V
C939	1-124-927-11	ELECT	4.7uF	20%	100V
C940	1-124-907-11	ELECT	10uF	20%	50V
C945	1-164-159-11	CERAMIC	0.1uF		50V
C946	1-164-159-11	CERAMIC	0.1uF		50V

Ref.No.	Part No.	Description			Remark
		< DIODE >			
D922	8-719-304-31	LED	SEL4214S (100)		
D923	8-719-304-31	LED	SEL4214S		
D924	8-719-304-31	LED	SEL4214S (50)		
D925	8-719-304-31	LED	SEL4214S		
D926	8-719-304-31	LED	SEL4214S (0)		
D927	8-719-304-31	LED	SEL4214S (PHASE)		
D928	8-719-304-31	LED	SEL4214S (POWER)		
D932	8-719-304-31	LED	SEL4214S (100)		
D933	8-719-304-31	LED	SEL4214S		
D934	8-719-304-31	LED	SEL4214S (50)		
D935	8-719-304-31	LED	SEL4214S-D-TP6		
D936	8-719-304-31	LED	SEL4214S-D-TP6 (0)		
		< IC >			
IC901	8-759-801-04	IC	LB1403N		
IC902	8-759-801-04	IC	LB1403N		
		< TRANSISTOR >			
Q921	8-729-119-79	TRANSISTOR	2SC2785-FEK		
		< RESISTOR >			
R930	1-249-439-11	CARBON	68K	5%	1/4W
R932	1-249-439-11	CARBON	68K	5%	1/4W
R933	1-249-441-11	CARBON	100K	5%	1/4W
R934	1-249-403-11	CARBON	68	5%	1/4W
R935	1-249-441-11	CARBON	100K	5%	1/4W
R936	1-249-403-11	CARBON	68	5%	1/4W
R938	1-249-437-11	CARBON	47K	5%	1/4W
R939	1-249-417-11	CARBON	1K	5%	1/4W
R940	1-249-421-11	CARBON	2.2K	5%	1/4W
R942	1-249-421-11	CARBON	2.2K	5%	1/4W
R943	1-249-417-11	CARBON	1K	5%	1/4W
R945	1-249-429-11	CARBON	10K	5%	1/4W
R946	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S951	1-572-714-11	SWITCH, PUSH (LEVEL METER)			
**********					

Ref. No.	Part No.	Description			Remark
*	A-4377-196-A	MAIN BOARD, COMPLETE (W551/W552:US, CND)			
*	A-4377-466-A	MAIN BOARD, COMPLETE (W552:MX)			
*	A-4377-468-A	MAIN BOARD, COMPLETE (W552:E, SP)			
*	A-4377-730-A	MAIN BOARD, COMPLETE (W552:AEP, UK, G)			
		**********			
		(Including JACK, POWER BOARDS)			
		< CAPACITOR >			
C600	1-136-165-00	FILM	0.1uF	5%	50V
C601	1-124-927-11	ELECT	4.7uF	20%	100V
C602	1-162-294-31	CERAMIC	0.001uF	10%	50V
C604	1-124-927-11	ELECT	4.7uF	20%	100V
C605	1-162-286-21	CERAMIC	220PF	10%	50V
C606	1-162-191-31	CERAMIC	2.2PF	10%	50V
C607	1-124-910-11	ELECT	47uF	20%	50V
C608	1-124-667-11	ELECT	10uF	20%	100V
C610	1-130-493-00	MYLAR	0.068uF	5%	50V
C611	1-124-667-11	ELECT	10uF	20%	100V
C613	1-104-664-11	ELECT	47uF	20%	25V
C614	1-126-933-11	ELECT	100uF	20%	10V
C615	1-162-294-31	CERAMIC	0.001uF	10%	50V
C616	1-124-907-11	ELECT	10uF	20%	50V
C617	1-104-664-11	ELECT	47uF	20%	25V
C618	1-124-907-11	ELECT	10uF	20%	50V
C619	1-124-667-11	ELECT	10uF	20%	100V
C621	1-162-290-31	CERAMIC	470PF	10%	50V
				(W552:AEP, UK, G)	
C650	1-136-165-00	FILM	0.1uF	5%	50V
C651	1-124-927-11	ELECT	4.7uF	20%	100V
C652	1-162-294-31	CERAMIC	0.001uF	10%	50V
C654	1-124-927-11	ELECT	4.7uF	20%	100V
C655	1-162-286-21	CERAMIC	220PF	10%	50V
C656	1-162-191-31	CERAMIC	2.2PF	10%	50V
C657	1-124-910-11	ELECT	47uF	20%	50V
C660	1-130-493-00	MYLAR	0.068uF	5%	50V
C665	1-162-294-31	CERAMIC	0.001uF	10%	50V
C669	1-124-907-11	ELECT	10uF	20%	50V
C670	1-124-907-11	ELECT	10uF	20%	50V
C671-673					
	1-124-902-00	ELECT	0.47uF	20%	50V
C674	1-124-252-00	ELECT	0.33uF	20%	50V
C675	1-124-252-00	ELECT	0.33uF	20%	50V
C676	1-136-166-00	FILM	0.12uF	5%	50V
C677	1-124-902-00	ELECT	0.47uF	20%	50V
C678	1-136-172-00	FILM	0.39uF	5%	50V
C681	1-124-927-11	ELECT	4.7uF	20%	100V
C682	1-162-286-21	CERAMIC	220PF	10%	50V
C683	1-162-286-21	CERAMIC	220PF	10%	50V
C684	1-162-191-31	CERAMIC	2.2PF	10%	50V
C685	1-124-910-11	ELECT	47uF	20%	50V

Ref. No.	Part No.	Description			Remark
C686	1-162-294-31	CERAMIC	0.001uF	10%	50V
C688	1-124-903-11	ELECT	1uF	20%	50V
C689	1-104-664-11	ELECT	47uF	20%	25V
C690	1-124-910-11	ELECT	47uF	20%	50V
C691	1-126-176-11	ELECT	220uF	20%	10V
C692	1-124-910-11	ELECT	47uF	20%	50V
C693	1-124-910-11	ELECT	47uF	20%	50V
C694	1-162-282-31	CERAMIC	100PF	10%	50V
C695	1-162-282-31	CERAMIC	100PF	10%	50V
C699	1-162-282-31	CERAMIC	100PF	10%	50V
			(W551/W552:US, CND, E, MX, SP)		
C699	1-162-302-11	CERAMIC	0.0022uF	30%	16V
					(W552:AEP, UK, G)
C705	1-136-162-00	MYLAR	0.056uF	10%	50V
					(W552:AEP, UK, G)
C707	1-162-294-31	CERAMIC	0.001uF	10%	50V
					(W552:AEP, UK, G)
C708	1-162-294-31	CERAMIC	0.001uF	10%	50V
					(W552:AEP, UK, G)
C755	1-136-162-00	MYLAR	0.056uF	10%	50V
					(W552:AEP, UK, G)
⚠C901	1-161-744-51	CERAMIC	0.01uF		400V
					(W552:AEP, UK, G, E, SP)
C902	1-164-097-11	CERAMIC	0.022uF		50V
C903	1-126-943-11	ELECT	2200uF	20%	25V
C911	1-106-367-00	MYLAR	0.01uF	5%	200V
					(W551/W552:US, CND, E, MX, SP)
C911	1-106-228-00	MYLAR	0.22uF	5%	100V
					(W552:AEP, UK, G)
C912	1-106-367-00	MYLAR	0.01uF	5%	200V
					(W551/W552:US, CND, E, MX, SP)
C912	1-106-228-00	MYLAR	0.22uF	5%	100V
					(W552:AEP, UK, G)
C913	1-164-097-11	CERAMIC	0.022uF		50V
					(W551/W552:US, CND, E, MX, SP)
C913	1-136-172-00	FILM	0.39uF	5%	50V
					(W552:AEP, UK, G)
C914	1-164-097-11	CERAMIC	0.022uF		50V
					(W551/W552:US, CND, E, MX, SP)
C914	1-136-172-00	FILM	0.39uF	5%	50V
					(W552:AEP, UK, G)
C915	1-164-097-11	CERAMIC	0.022uF		50V
					(W551/W552:US, CND, E, MX, SP)
C915	1-136-165-00	FILM	0.1uF	5%	50V
					(W552:AEP, UK, G)
C916	1-164-097-11	CERAMIC	0.022uF		50V
					(W551/W552:US, CND, E, MX, SP)
C916	1-136-165-00	FILM	0.1uF	5%	50V
					(W552:AEP, UK, G)
C917	1-128-493-11	ELECT	4700uF	20%	63V
			(W551/W552:US, CND, AEP, UK, G, E, SP)		

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MAIN

Ref. No.	Part No.	Description	Remark
C917	1-126-258-11	ELECT 4700uF 20% 56V	(W552:MX)
C918	1-128-493-11	ELECT 4700uF 20% 63V	(W551/W552:US, CND, AEP, UK, G, E, SP)
C918	1-126-258-11	ELECT 4700uF 20% 56V	(W552:MX)
C919	1-126-955-11	ELECT 4700uF 20% 35V	
C920	1-126-955-11	ELECT 4700uF 20% 35V	
C921	1-126-937-11	ELECT 4700uF 20% 16V	
C922	1-124-556-11	ELECT 2200uF 20% 16V	
C923	1-124-907-11	ELECT 10uF 20% 50V	
C924	1-124-907-11	ELECT 10uF 20% 50V	
C925	1-124-925-11	ELECT 2.2uF 20% 100V	
C926	1-124-907-11	ELECT 10uF 20% 50V	
C927	1-124-907-11	ELECT 10uF 20% 50V	
C928	1-124-903-11	ELECT 1uF 20% 50V	
C929	1-124-472-11	ELECT 470uF 20% 10V	
C930	1-124-472-11	ELECT 470uF 20% 10V	
C931	1-124-472-11	ELECT 470uF 20% 10V	
C932	1-124-472-11	ELECT 470uF 20% 10V	
C937	1-124-903-11	ELECT 1uF 20% 50V	
C943	1-124-907-11	ELECT 10uF 20% 50V	
C944	1-124-907-11	ELECT 10uF 20% 50V	
C947	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C960	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C961	1-162-306-11	CERAMIC 0.01uF 30% 16V	
		< CONNECTOR >	
* CN902	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL)	
CN905	1-770-128-11	PIN, CONNECTOR 2P (W552:E, SP)	
* CN906	1-506-944-11	PIN, CONNECTOR 2P	
CN907	1-564-321-00	PIN, CONNECTOR 2P	
CN908	1-770-128-11	PIN, CONNECTOR 2P	(W551/W552:US, CND, AEP, UK, G, MX)
* CN908	1-564-687-11	PIN, CONNECTOR 3P (W552:E, SP)	
* CN911	1-506-530-11	PIN, CONNECTOR 11P	
CN913	1-564-506-11	PLUG, CONNECTOR 3P	
* CN914	1-564-506-11	PLUG, CONNECTOR 3P	
* CN921	1-568-934-11	PIN, CONNECTOR 7P	
		< DIODE >	
D601	8-719-815-85	DIODE 1S1585	
D602	8-719-815-85	DIODE 1S1585	
D603	8-719-987-63	DIODE 1N4148M	
D604	8-719-987-63	DIODE 1N4148M	
D631	8-719-987-63	DIODE 1N4148M	
D651	8-719-815-85	DIODE 1S1585	
D671	8-719-987-63	DIODE 1N4148M	
D672	8-719-987-63	DIODE 1N4148M	
D681	8-719-987-63	DIODE 1N4148M	

Ref. No.	Part No.	Description	Remark
D691	8-719-987-63	DIODE 1N4148M	
D901	8-719-200-82	DIODE 11ES2	
D902	8-719-200-82	DIODE 11ES2	
D903	8-719-200-82	DIODE 11ES2	
D904	8-719-200-82	DIODE 11ES2	
D905	8-719-987-63	DIODE 1N4148M	
D911	8-719-500-60	DIODE D5SBA20	
D912	8-719-500-60	DIODE D5SBA20	
D913	8-719-200-82	DIODE 11ES2	
D914	8-719-200-82	DIODE 11ES2	
D915	8-719-200-82	DIODE 11ES2	
D916	8-719-200-82	DIODE 11ES2	
D917	8-719-002-48	DIODE UZL-27H	
D918	8-719-014-74	DIODE UZP-6.2B	
D919	8-719-987-63	DIODE 1N4148M	
D920	8-719-987-63	DIODE 1N4148M	
D942	8-719-987-63	DIODE 1N4148M	
		< GROUND TERMINAL >	
EB901	1-537-770-11	TERMINAL BOARD, GROUND	
EB902	1-537-770-11	TERMINAL BOARD, GROUND	
		< IC >	
IC601	8-749-921-68	IC STK-4231MK2 (W551/W552:US, CND)	
IC601	8-749-922-65	IC STK-4221MK2 (W552:AEP, UK, G, E, MX, SP)	
IC602	8-759-111-68	IC uPC1237HA	
IC631	8-759-085-89	IC LM3875-S	
IC641	8-759-085-89	IC LM3875-S	
IC651	8-759-634-50	IC M5218AL	
IC652	8-759-634-50	IC M5218AL	
IC653	8-759-634-50	IC M5218AL	
IC681	8-749-940-30	IC STK-4030II	
IC911	8-759-602-66	IC M5230L-A	
IC912	8-759-604-86	IC M5F7807	
		< JACK >	
J901	1-569-113-11	JACK, LARGE TYPE (HEADPHONES)	
		< COIL >	
L601	1-420-872-00	COIL, AIR-CORE	
L651	1-420-872-00	COIL, AIR-CORE	
L701	1-420-872-00	COIL, AIR-CORE (W552:AEP, UK, G)	
L751	1-420-872-00	COIL, AIR-CORE (W552:AEP, UK, G)	
		< JACK >	
PJ601	1-764-406-11	JACK BLOCK, PIN 3P	(INPUT, FRONT/SUPER WOOFER)
PJ602	1-764-405-11	JACK BLOCK, PIN 2P (INPUT, REAR/CENTER)	

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q602	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q603	8-729-143-49	TRANSISTOR	2SD1312-LKU			
Q604	8-729-900-63	TRANSISTOR	DTA124ES			
Q605	8-729-900-36	TRANSISTOR	DTC124ES			
Q606	8-729-900-63	TRANSISTOR	DTA124ES			
Q652	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q671	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q901	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q911	8-729-141-83	TRANSISTOR	2SB1094-LK			
Q912	8-729-209-15	TRANSISTOR	2SD2012			
Q914	8-729-119-77	TRANSISTOR	2SA1175-FEK			
		< RESISTOR >				
⚠R600	1-249-451-61	CARBON	2.2	5%	1/4W	F
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R605	1-249-923-11	CARBON	1K	5%	1/4W	F
R606	1-249-413-11	CARBON	470	5%	1/4W	
R608	1-249-438-11	CARBON	56K	5%	1/4W	
R609	1-249-425-11	CARBON	4.7K	5%	1/4W	
R610	1-249-421-11	CARBON	2.2K	5%	1/4W	
R611	1-249-421-11	CARBON	2.2K	5%	1/4W	
⚠R612	1-249-405-11	CARBON	100	5%	1/4W	F
⚠R613	1-249-923-11	CARBON	1K	5%	1/4W	F
R614	1-247-863-91	CARBON	22K	5%	1/4W	
R615	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R616	1-214-789-00	RES, METAL PLATE			0.1	
R617-620	1-249-393-11	CARBON	10	5%	1/4W	
⚠R621	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F (W551/W552:US, CND)
⚠R621	1-216-480-11	METAL OXIDE	820	5%	3W	F (W552:AEP, UK, G, E, MX, SP)
R622	1-249-437-11	CARBON	47K	5%	1/4W	
R623	1-249-435-11	CARBON	33K	5%	1/4W	
R624	1-249-425-11	CARBON	4.7K	5%	1/4W	
R625	1-249-437-11	CARBON	47K	5%	1/4W	
R626	1-249-427-11	CARBON	6.8K	5%	1/4W	
R627	1-249-441-11	CARBON	100K	5%	1/4W	
R628	1-249-439-11	CARBON	68K	5%	1/4W	
R629	1-249-432-11	CARBON	18K	5%	1/4W	
R630	1-249-429-11	CARBON	10K	5%	1/4W	
R637	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R638	1-260-091-11	CARBON	220	5%	1/2W	F
R639	1-247-863-91	CARBON	22K	5%	1/4W	
R647	1-249-435-11	CARBON	33K	5%	1/4W	
R649	1-249-432-11	CARBON	18K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-247-887-00	CARBON	220K	5%	1/4W	
R653	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R655	1-249-405-11	CARBON	100	5%	1/4W	F
R656	1-249-413-11	CARBON	470	5%	1/4W	
R658	1-249-438-11	CARBON	56K	5%	1/4W	
R659	1-249-425-11	CARBON	4.7K	5%	1/4W	
R660	1-249-421-11	CARBON	2.2K	5%	1/4W	
R661	1-249-421-11	CARBON	2.2K	5%	1/4W	
⚠R662	1-249-405-11	CARBON	100	5%	1/4W	F
R663	1-249-429-11	CARBON	10K	5%	1/4W	
R664	1-247-863-91	CARBON	22K	5%	1/4W	
R665	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R666	1-214-789-00	RES, METAL PLATE			0.1	
R667-670	1-249-393-11	CARBON	10	5%	1/4W	
R671	1-249-427-11	CARBON	6.8K	5%	1/4W	
R672	1-247-807-31	CARBON	100	5%	1/4W	
R673	1-249-429-11	CARBON	10K	5%	1/4W	
R674	1-249-429-11	CARBON	10K	5%	1/4W	
R675	1-249-429-11	CARBON	10K	5%	1/4W	
R676	1-249-417-11	CARBON	1K	5%	1/4W	
R677	1-249-429-11	CARBON	10K	5%	1/4W	
R678	1-249-429-11	CARBON	10K	5%	1/4W	
R679	1-249-425-11	CARBON	4.7K	5%	1/4W	
R680	1-249-435-11	CARBON	33K	5%	1/4W	
R681	1-249-417-11	CARBON	1K	5%	1/4W	
R682	1-249-435-11	CARBON	33K	5%	1/4W	
R683	1-249-413-11	CARBON	470	5%	1/4W	
R684	1-249-435-11	CARBON	33K	5%	1/4W	
R687	1-247-863-91	CARBON	22K	5%	1/4W	
R689	1-247-863-91	CARBON	22K	5%	1/4W	
R690	1-249-425-11	CARBON	4.7K	5%	1/4W	
R691	1-249-429-11	CARBON	10K	5%	1/4W	
R692	1-249-425-11	CARBON	4.7K	5%	1/4W	
R693	1-249-437-11	CARBON	47K	5%	1/4W	
R694	1-249-429-11	CARBON	10K	5%	1/4W	
R695	1-249-421-11	CARBON	2.2K	5%	1/4W	
R696	1-249-418-11	CARBON	1.2K	5%	1/4W	
R697	1-247-878-00	CARBON	91K	5%	1/4W	
R698	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R699	1-249-405-11	CARBON	100	5%	1/4W	F
R701	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R702	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R705	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R751	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)

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MAIN REAR TRANS 1

Ref.No.	Part No.	Description				Remark
R752	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R755	1-249-393-11	CARBON	10	5%	1/4W	(W552:AEP, UK, G)
R901	1-202-725-00	SOLID	3.3M	10%	1/2W	(W551/W552:US, CND)
R905	1-249-425-11	CARBON	4.7K	5%	1/4W	
R906	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R911	1-215-890-11	METAL OXIDE	470	5%	2W	F
R912	1-249-427-11	CARBON	6.8K	5%	1/4W	
R913	1-247-807-31	CARBON	100	5%	1/4W	
R914	1-247-807-31	CARBON	100	5%	1/4W	
R915	1-249-409-11	CARBON	220	5%	1/4W	
R916	1-247-903-00	CARBON	1M	5%	1/4W	
R917	1-249-415-11	CARBON	680	5%	1/4W	
R918	1-249-425-11	CARBON	4.7K	5%	1/4W	
R919	1-249-415-11	CARBON	680	5%	1/4W	
R920	1-249-409-11	CARBON	220	5%	1/4W	
R921	1-247-862-11	CARBON	20K	5%	1/4W	
R922	1-249-417-11	CARBON	1K	5%	1/4W	
R923	1-249-417-11	CARBON	1K	5%	1/4W	
R929	1-249-381-11	CARBON	1	5%	1/4W	
R931	1-249-381-11	CARBON	1	5%	1/4W	
R937	1-249-425-11	CARBON	4.7K	5%	1/4W	
R941	1-249-431-11	CARBON	15K	5%	1/4W	
R950-953	1-249-419-11	CARBON	1.5K	5%	1/4W	
⚠R960	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R961	1-249-381-11	CARBON	1	5%	1/4W	F
⚠R962	1-249-381-11	CARBON	1	5%	1/4W	F
		< RELAY >				
RY601	1-515-741-11	RELAY				
RY602	1-515-920-11	RELAY (24V)				
RY603	1-515-920-11	RELAY (24V)				
⚠RY901	1-515-999-11	RELAY, POWER				
		< TRANSFORMER >				
⚠T902	1-450-361-11	TRANSFORMER, POWER (W551/W552:US, CND, MX)				
⚠T902	1-450-358-11	TRANSFORMER, POWER (W552:AEP, UK, G, E, SP)				
		< TERMINAL >				
TM901	1-537-376-11	TERMINAL BOARD (SP) (FRONT/REAR SPEAKER)				
TM902	1-536-707-21	TERMINAL BOARD, PUSH 2P (CENTER SPEAKER)				

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Ref.No.	Part No.	Description				Remark
*	1-655-201-11	REAR BOARD				
		**********				
		< CAPACITOR >				
C631	1-124-927-11	ELECT	4.7uF	20%	100V	
C632	1-162-286-21	CERAMIC	220PF	10%	50V	
C633	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C634	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C635	1-124-907-11	ELECT	10uF	20%	50V	
C636	1-124-907-11	ELECT	10uF	20%	50V	
C639	1-124-477-11	ELECT	47uF	20%	25V	
C641	1-124-927-11	ELECT	4.7uF	20%	100V	
C642	1-162-286-21	CERAMIC	220PF	10%	50V	
C643	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C644	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C645	1-124-907-11	ELECT	10uF	20%	50V	
C646	1-124-907-11	ELECT	10uF	20%	50V	
C649	1-104-664-11	ELECT	47uF	20%	25V	
		< CONNECTOR >				
* CN915	1-564-508-11	PLUG, CONNECTOR 5P				
CN918	1-564-506-11	PLUG, CONNECTOR 3P				
		< RESISTOR >				
R631	1-247-807-31	CARBON	100	5%	1/4W	
R632	1-249-425-11	CARBON	4.7K	5%	1/4W	
R633	1-249-409-11	CARBON	220	5%	1/4W	
R634	1-249-431-11	CARBON	15K	5%	1/4W	
R641	1-247-807-31	CARBON	100	5%	1/4W	
R642	1-249-425-11	CARBON	4.7K	5%	1/4W	
R643	1-249-409-11	CARBON	220	5%	1/4W	
R644	1-249-431-11	CARBON	15K	5%	1/4W	

****

*	1-655-203-11	TRANS 1 BOARD	
		**********	
		< FUSE >	
⚠F901	1-532-237-00	FUSE, TIME LAG (T3.15A/250V)	(AEP, UK, G)
⚠F901	1-532-505-51	FUSE, TIME LAG (T5.0AL)	(W552:E, SP)
⚠F901	1-532-506-51	FUSE, TIME LAG (T6.3A/250V)	(W552:MX)
⚠F901	1-532-749-11	FUSE, GLASS CYLINDRICAL(DIA.5)(8A/125V)	(W551/W552:US, CND)
⚠F902	1-532-464-51	FUSE, TIME LAG (T2.5A/250V)	(W552:E, SP)

****

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Ref.No.	Part No.	Description	Remark
*	1-655-204-11	TRANS 2 BOARD	
		**********	
		< FUSE HOLDER >	
	1-533-293-11	FUSE HOLDER	
		< FUSE >	
⚠F911	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F911	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F912	1-532-506-51	FUSE, TIME LAG (T6.3A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F912	1-576-110-21	FUSE (6A/125V) (W551/W552:US, CND)	
⚠F913	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F913	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	
⚠F914	1-532-237-00	FUSE, TIME LAG (T3.15A/250V) (W552:AEP, UK, G, E, MX, SP)	
⚠F914	1-576-107-11	FUSE (3.15A/250V) (W551/W552:US, CND)	
**********			
		MISCELLANEOUS	
		**********	
⚠64	1-690-609-12	CORD, POWER (W551/W552:US, CND)	
⚠65	1-575-653-11	CORD, POWER (W552:E, MX)	
⚠66	1-569-007-11	ADAPTER, CONVERSION 2P (W552:E)	
⚠67	1-575-651-11	CORD, POWER (W552:AEP, G, SP)	
68	1-769-278-11	CORD, CONNECTION	
⚠69	1-751-521-21	CORD, POWER (W552:UK)	
SP901	1-504-515-11	SPEAKER (20CM)	
⚠T901	1-423-947-11	TRANSFORMER, POWER (W551/W552:US, CND)	
⚠T901	1-426-916-11	TRANSFORMER, POWER (W552:MX)	
⚠T901	1-426-934-11	TRANSFORMER, POWER (W552:AEP, UK, G)	
⚠T901	1-427-809-11	TRANSFORMER, POWER (W552:E, SP)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-798-201-11	MANUAL, INSTRUCTION (SPANISH) (W552:MX)	
	3-798-201-21	MANUAL, INSTRUCTION (ENGLISH) (W551/W552:US)	
	3-798-201-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (W552:CND)	
	3-798-201-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE, ARABIC) (W552:E, SP)	
	3-798-201-51	MANUAL, INSTRUCTION (ENGLISH, FRENCH, DUTCH) (W552:AEP, UK)	
	3-798-201-61	MANUAL, INSTRUCTION (GERMAN, FINNISH, SPANISH, SWEDISH, DANISH) (W552:AEP, G)	
*	4-964-155-01	CUSHION (UPPER)	
*	4-964-156-01	CUSHION (LOWER)	
*	4-973-553-01	INDIVIDUAL CARTON (W552:US, CND, E, MX)	
*	4-973-554-01	INDIVIDUAL CARTON (W552:SP)	
*	4-973-555-01	INDIVIDUAL CARTON (W552:AE2, G)	
*	4-973-556-01	INDIVIDUAL CARTON (W551)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-134-19	SCREW +PTPWH 2.6×8 (TYPE2)	
#2	7-621-846-58	SCREW (4×20), TAPPING	
#3	7-685-647-79	SCREW +BVTP 3×10 TYPE2 N-S	
#4	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S	
#5	7-685-650-79	SCREW +BVTP 3×16 TYPE2 IT-3	
#6	7-682-666-09	SCREW +PSW 4×20	

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SA-W551/W552

SONY

SERVICE MANUAL

US Model
SA-W551/W552

Canadian Model
AEP Model
UK Model
E Model
SA-W552

CORRECTION-1

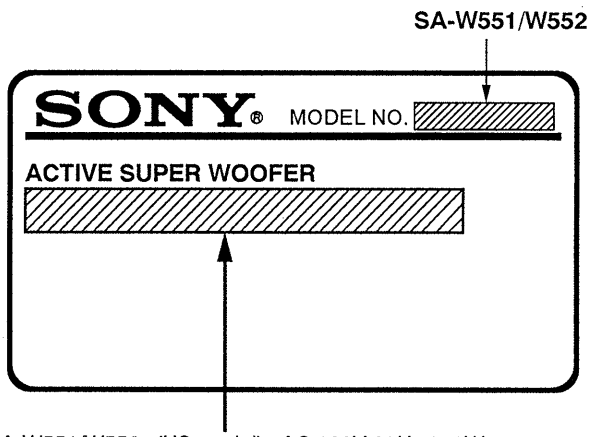
Correct your service manual as shown below.

☛ : **indicates corrected portion**

(Service Manual See page 1)

Photo : SA-W552 (E model)

- **MODEL IDENTIFICATION** (Service Manual See page 2)



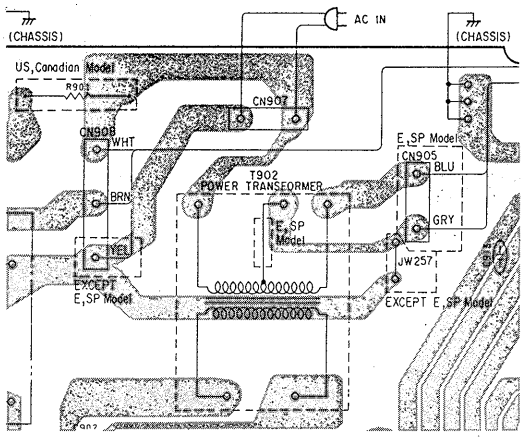
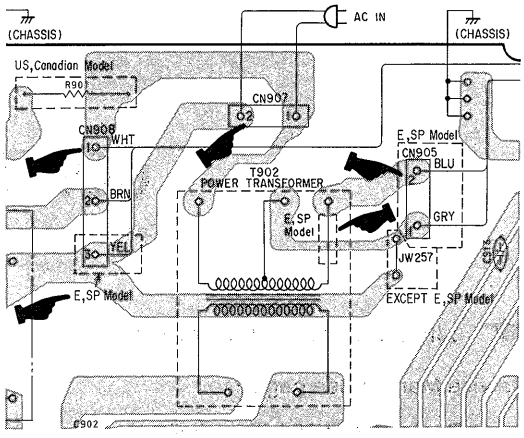
SA-W551/W552 (US model) : AC 120V 60Hz 280W
SA-W552 (Mexican model) : AC 120V 60Hz 250W
SA-W552 (E model) : AC 110-120V/220-240V~50/60Hz 280W
SA-W552
(AEP, UK, German model) : AC 220-230V~50 /60Hz 250W
SA-W552 (Singapore model) : AC 110-120V/220-240V~50/60Hz 250W
☛ SA-W552 (Canadian model) : AC 120V 60Hz 380VA

● **PRINTED WIRING BOARDS**

☛ : **indicates corrected portion**

Page 7

(Location A – C, 7 – 9)

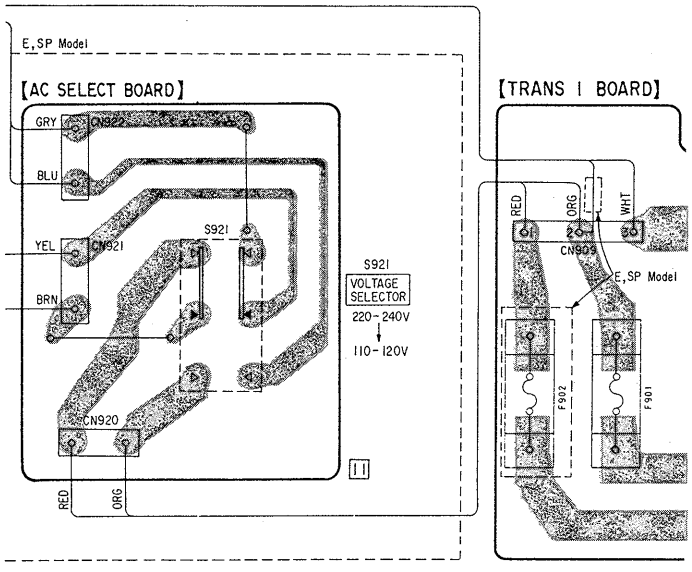
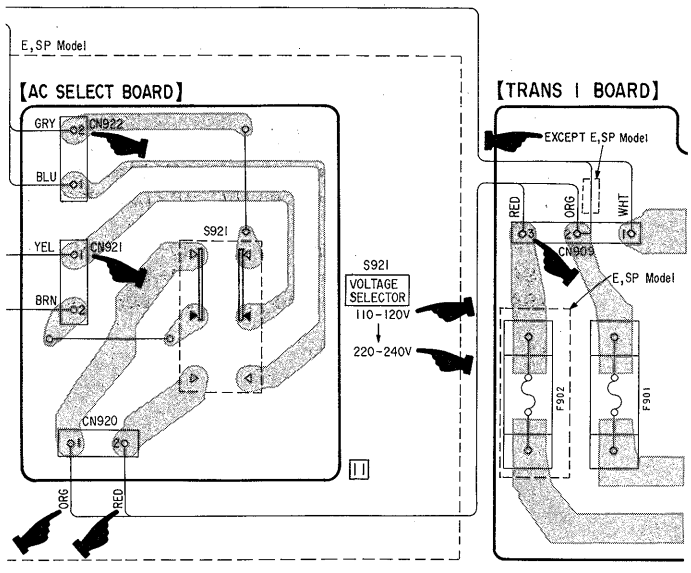
INCORRECT	CORRECT
	

● **PRINTED WIRING BOARDS**

☛ : **indicates corrected portion**

Page 8

(Location A – D, 14 – 17)

INCORRECT	CORRECT
	

● **SCHEMATIC DIAGRAM**

☛ : **indicates corrected portion**

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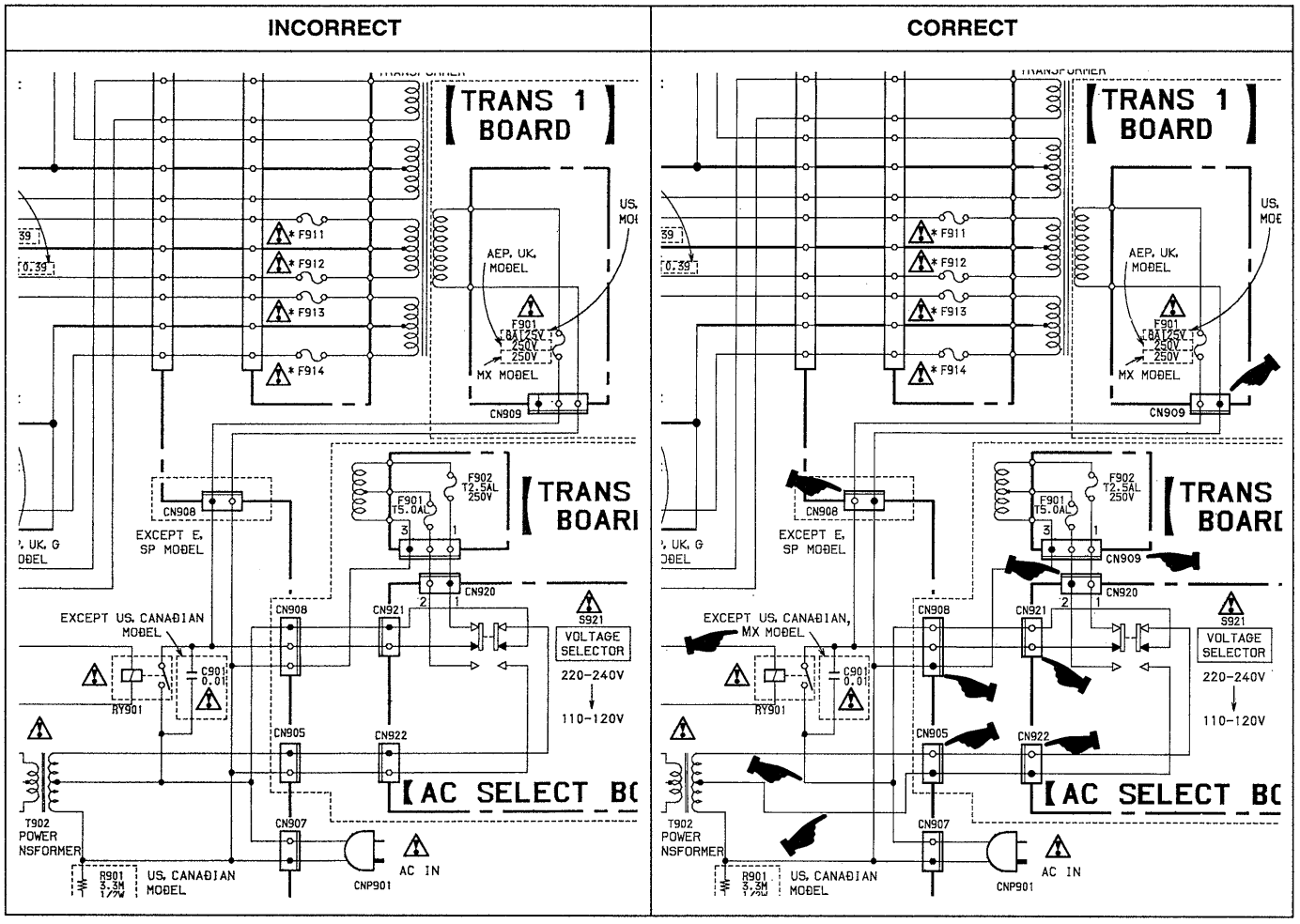
(Location I – N, 22 – 26)



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